# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 10/20/2017 02:08 PM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/18/2017 09:13 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017 (Expired)
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124343 | -1 | 1.54 | 124219 | 1.48 |
| Blue | F | SSC | 125000 | 123990 | -1 | 2.56 | 124365 | 2.29 |
| Blue | E | FITC | 23615 | 22918 | -3 | 2.58 | 1018 | 10.65 |
| Blue | D | PE | 26739 | 26347 | -2 | 2.17 | 947 | 9.98 |
| Blue | B | PerCP-Cy5-5 | 48339 | 47658 | -2 | 3.47 | 1361 | 17.37 |
| Blue | A | PE-Cy7 | 45021 | 45351 | 0 | 5.19 | 703 | 36.43 |
| Red | C | APC | 53064 | 52710 | -1 | 2.90 | 3052 | 9.68 |
| Red | A | APC-Cy7 | 57175 | 56362 | -2 | 2.89 | 1164 | 11.42 |
| Violet | B | V450 | 14728 | 14009 | -5 | 4.66 | 673 | 8.89 |
| Violet | A | V500 | 58621 | 57543 | -2 | 4.50 | 2550 | 6.51 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19857 | 3.25 | 611 | -3 | N/A | N/A | Pass |
| Blue | F | SSC | 61223 | 1.71 | 549 | 3 | N/A | N/A | Pass |
| Blue | E | FITC | 116 | 38.75 | 550 | 2 | 0.0191 | 114 | Pass |
| Blue | D | PE | 208 | 30.22 | 539 | 3 | 0.1627 | 293 | Pass |
| Blue | B | PerCP-Cy5-5 | 212 | 44.48 | 638 | 3 | 0.0094 | 26 | Pass |
| Blue | A | PE-Cy7 | 75 | 124.85 | 698 | 5 | 0.0113 | 19 | Pass |
| Red | C | APC | 355 | 28.19 | 602 | 5 | 0.0193 | 59 | Pass |
| Red | A | APC-Cy7 | 129 | 41.41 | 585 | 5 | 0.0054 | 1770 | Pass |
| Violet | B | V450 | 82 | 41.93 | 471 | 1 | 0.0587 | 2581 | Pass |
| Violet | A | V500 | 187 | 21.74 | 500 | 3 | 0.0181 | 719 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.56 | -31.25 | 0.83 |
| Blue | 20.35 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.33 |
| Red | 17.69 | 13.27 - 19.91 | N/A | N/A | 31.72 | 31.92 | 1.16 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 9529

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments